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PTO/SB/16 (8-00) Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

INVENTOR(S) Residence Given Name (first and middle [if any]) Family Name or Surname (City and either State or Foreign Country) Avoub Joseph Katy, Texas Jardine **Houston, Texas** Stuart Fitzgerald Paris, France Peter Additional inventors are being named on the . separately numbered sheets attached hereto TITLE OF THE INVENTION (280 characters max) Means and Method of for Assessing the Geometry of a Subterranean Fracture After or During a Hydraulic Fracturing Treatment **CORRESPONDENCE ADDRESS** Direct all correspondence to: Place Customer Number 27452 Customer Number Bar Code Label here OR Type Customer Number here Firm or Individual Name Address Address City ZIP State Country ENCLOSED APPLICATION PARTS (check all that apply) Specification Number of Pages CD(s), Number Drawing(s) Number of Sheets Other (specify) Application Data Sheet, See 37 CFR 1.76 METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT **FILING FEE** Applicant claims small entity status. See 37 CFR 1.27. AMOUNT (\$) A check or money order is enclosed to cover the filing fees The Commissioner is hereby authorized to charge filing X 160.00 fees or credit any overpayment to Deposit Account Number: 04-1579 (56.0658) Payment by credit card. Form PTO-2038 is attached. The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government. No. Yes, the name of the U.S. Government agency and the Government contract number are: Respectfully submitted, 4:19:02 mon SIGNATURE REGISTRATION NO. 47,800 **Thomas Mitchell** (if appropriate) TYPED or PRINTED NAME _ Docket Number: 56.0658 281-285-4490

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.